

APPENDIX M

VEGETATION RECOMMENDED FOR CONSERVATION PLANTINGS

Table M.1: Native Ferns, Grasses and Vines

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
Ferns and Fern Allies														
<i>Adiantum pedatum</i>	maidenhair fern		X	X			X	X	X	X				X
<i>Asplenium platyneuron</i>	ebony spleenwort		X				X	X	X	X	X			X
<i>Athyrium asplenioides</i> (<i>A. filix-femina</i>)	Southern ladyfern		X	X			X	X	X	X				X X
<i>Botrychium virginianum</i>	Rattlesnake fern		X				X	X	X	X	X			X X
<i>Dennstaedtia punctilobula</i> +	hay-scented fern			X			X	X	X		X	X		X X
<i>Dryopteris intermedia</i>	evergreen wood-fern		X	X			X	X	X	X	X			X X X
<i>Dryopteris marginalis</i>	marginal shield-fern		X	X			X	X		X	X			X
<i>Onoclea sensibilis</i> +	sensitive fern		X	X			X	X	X		X	X		X X
<i>Osmunda cinnamomea</i>	cinnamon fern		X	X			X	X	X	X	X			X X
<i>Osmunda regalis</i>	royal fern		X	X			X	X	X		X			X X
<i>Polystichum acrostichoides</i>	Christmas fern		X	X			X	X	X	X				X
<i>Thelypteris palustris</i>	marsh fern		X				X	X	X		X	X		X X
<i>Woodwardia virginica</i> +	Virginia chain fern		X	X				X	X	X				X X
Grasses, sedges, and reeds														
<i>Agrostis perennans</i>	autumn bentgrass			X			X	X	X	X	X	X	X	X X X
<i>Andropogon gerardii</i>	big bluestem	X	X	X	X		X	X			X	X		X X
<i>Andropogon glomeratus</i>	bushy bluestem		X	X			X	X	X		X	X		X X
<i>Andropogon virginicus</i>	broomsedge		X	X			X	X	X		X	X		X X X
<i>Arundinaria gigantea</i>	wild cane, river cane	X		X			X	X	X	X	X	X	X	X X X
<i>Calamagrostis canadensis</i>	bluejoint reedgrass	X		X			X				X	X		X X
<i>Carex crinita</i> var. <i>crinita</i>	long hair sedge	X	X	X			X	X	X		X	X		X X
<i>Carex lurida</i>	sallow sedge	X		X			X	X	X		X	X		X X
<i>Carex pensylvanica</i>	Pennsylvania sedge	X		X			X	X	X		X	X		X X
<i>Carex plantaginea</i>	plantain-leaved sedge		X	X			X	X			X			X
<i>Carex stricta</i>	tussock sedge	X		X			X	X	X		X	X		X X
<i>Chasmanthium latifolium</i> (<i>Uniola L.</i>)	river oats, spanglegrass		X	X			X	X	X		X	X		X
<i>Danthonia sericea</i>	silky oatgrass	X		X			X	X	X		X	X		X X
<i>Danthonia spicata</i>	poverty oatgrass	X		X			X	X	X		X	X		X X
<i>Dichanthelium clandestinum</i>	deer-tongue	X		X	X		X	X	X		X	X		X X X
<i>Dichanthelium commutatum</i>	variable panicgrass	X	X	X	X		X	X	X		X	X		X X
<i>Dulichium arundinaceum</i>	dwarf bamboo	X		X	X		X	X	X		X	X		X
<i>Elymus hystrix</i> (<i>Hystrix patula</i>)	bottlebrush grass	X	X				X	X	X		X	X		X X
<i>Elymus virginicus</i>	Virginia wild rye	X		X			X	X	X		X	X		X X
<i>Festuca rubra</i>	red fescue	X		X	X		X				X	X		X X
<i>Juncus canadensis</i>	Canada rush	X		X				X	X		X	X		X X
<i>Juncus effusus</i>	soft rush	X		X			X	X	X		X	X		X X
<i>Leersia oryzoides</i>	rice cutgrass	X		X			X	X	X		X	X		X X
<i>Panicum amarum</i>	coastal panic grass	X	X	X					X			X		X
<i>Panicum virgatum</i>	switch grass	X	X	X			X	X	X		X	X		X X X
<i>Saccharum giganteum</i> (<i>Erianthus giganteus</i>)	giant plumegrass	X	X	X				X	X		X	X		X X
<i>Schizachyrium scoparium</i>	little bluestem	X	X	X	X		X	X	X		X	X		X X
<i>Scirpus cyperinus</i>	woolgrass bulrush	X	X	X			X	X	X		X	X		X X
<i>Sorghastrum nutans</i>	Indian grass	X	X	X	X		X	X	X		X	X		X X
<i>Sparganium americanum</i>	American bur-reed	X		X			X	X	X		X	X		X

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
<i>Tridens flavus</i>	redtop	X	X	X	X	X	X	X		X	X	X	X	
<i>Tripsacum dactyloides</i>	gama grass	X	X	X	X	X	X	X		X	X		X	X
<i>Typha latifolia</i>	broad-leaved cattail	X		X		X	X	X			X		X	X
<i>Zizania aquatica</i>	wild rice	X	X	X				X			X			X
Vines														
<i>Bignonia capreolata</i>	crossvine	X	X			X	X	X	X	X			X	X
<i>Celastrus scandens</i>	climbing bittersweet	X	X			X	X	X	X	X	X			X
<i>Clematis virginiana</i>	virgin's bower		X			X	X	X		X	X			X
<i>Decumaria barbara</i>	climbing hydrangea		X	X				X		X	X			X
<i>Gelsemium sempervirens</i>	Carolina jessamine	X	X					X	X	X	X	X	X	X
<i>Lonicera sempervirens</i>	trumpet honeysuckle		X	X		X	X	X		X				X
<i>Parthenocissus quinquefolia</i>	Virginia creeper	X	X	X		X	X	X		X	X			X
<i>Wisteria frutescens</i>	Atlantic wisteria		X					X		X	X		X	X

+ May be aggressive in garden setting.

* Due to the rarity and sensitivity of habitat in Virginia, these species are recommended for horticultural use only. Planting these species in natural areas could be detrimental to the survival of native populations.

Source: VA DCR, undated.

^aRecommended Uses

W = Wildlife

H = Horticulture and Landscaping

C = Conservation and Restoration

D = Domestic Livestock Forage

^bNative Regions

M = Mountains

P = Piedmont

C = Coastal Plain

^cMinimum Light Requirements

S = Full Shade

P = Partial Sun

F = Full Sun

^dMinimum Moisture Requirements

L = Low Moisture

M = Moderate Moisture

H = High Moisture

Table M.2: Native Herbs

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
Herbs														
<i>Aster cordifolius</i>	heart-leaved aster		x	x		x	x	x		x	x		x	
<i>Aster divaricatus</i>	white wood aster	x	x	x		x	x			x	x	x	x	
<i>Aster laevis</i>	smooth blue aster	x	x	x		x				x		x		
<i>Aster novae-angliae</i>	New England aster		x	x		x				x	x	x	x	
<i>Aster novi-belgii</i>	New York aster	x	x	x			x			x	x		x	
<i>Aster pilosus</i>	white heath aster	x	x	x		x	x	x		x		x		
<i>Aster umbellatus</i>	flat-top white aster		x	x		x	x			x	x	x	x	
<i>Baptisia australis</i> *	blue wild indigo	x	x			x	x			x	x		x	
<i>Baptisia tinctoria</i>	yellow wild-indigo	x	x			x	x	x		x	x	x		
<i>Bidens cernua</i> +	nodding beggar-ticks	x	x	x		x	x	x		x	x	x	x	x
<i>Boltonia asteroides</i> *	aster-like boltonia		x				x				x		x	
<i>Caltha palustris</i>	marsh marigold		x	x		x	x			x	x			x
<i>Chamaecrista fasciculata</i> +	partridge pea		x			x	x	x		x		x	x	x
<i>Chelone glabra</i>	white turtlehead		x	x		x	x	x		x	x			x
<i>Chrysogonum virginianum</i>	green and gold		x	x		x	x	x		x			x	
<i>Chrysopsis mariana</i> (<i>Heterotheca m.</i>)	Maryland golden aster	x	x	x		x	x	x		x	x	x		
<i>Cimicifuga racemosa</i>	black cohosh	x				x	x	x		x	x		x	
<i>Clitoria mariana</i>	Maryland butterfly pea	x	x			x	x	x		x	x	x		
<i>Convallaria majuscula</i> (<i>C. montana</i>)	American lily-of-the-valley		x			x				x	x		x	
<i>Coreopsis tripteris</i>	tall coreopsis	x	x			x	x	x		x	x		x	
<i>Coreopsis verticillata</i>	threadleaf coreopsis	x	x			x	x	x		x	x	x		
<i>Delphinium tricorne</i>	dwarf larkspur	x				x	x			x	x		x	
<i>Desmodium paniculatum</i>	narrow-leaf tick trefoil	x		x		x	x	x		x		x		
<i>Dicentra cucullaria</i>	Dutchman's breeches	x				x	x			x			x	
<i>Dicentra eximia</i>	wild bleeding heart	x				x	x			x	x	x		
<i>Dodecatheon meadia</i>	shooting star	x				x				x	x	x	x	
<i>Equisetum hyemale</i>	horsetail, scouring rush		x			x	x	x		x	x	x	x	x
<i>Eupatorium coelestinum</i>	mistflower	x	x	x		x	x	x		x	x	x		
<i>Eupatorium fistulosum</i>	Joe Pye weed	x	x	x		x	x	x		x	x		x	
<i>Eupatorium perfoliatum</i>	common boneset		x			x	x	x		x	x	x	x	x
<i>Geranium maculatum</i>	wild geranium	x				x	x			x	x	x		x
<i>Helenium autumnale</i>	sneezeweed	x	x	x		x	x	x		x	x		x	
<i>Helianthus angustifolius</i>	narrow-leaf sunflower	x	x	x			x	x		x	x		x	x
<i>Helianthus decapetalus</i>	ten-petaled sunflower	x	x	x		x	x	x		x	x	x		x
<i>Helianthus divaricatus</i>	woodland sunflower	x	x	x		x	x	x		x		x		
<i>Heliopsis helianthoides</i>	oxeye sunflower	x	x	x		x	x	x		x	x	x	x	
<i>Hepatica acutiloba</i>	sharp-lobed hepatica	x				x				x		x	x	
<i>Hepatica americana</i>	round-lobed hepatica	x				x	x	x		x		x	x	
<i>Heuchera americana</i>	alumroot	x				x	x	x		x		x		
<i>Hibiscus moscheutos</i>	Eastern rosemallow	x	x	x		x	x	x		x				x
<i>Iris cristata</i>	dwarf crested iris	x				x	x			x	x		x	
<i>Iris prismatica</i>	slender blueflag	x					x			x	x	x	x	x
<i>Iris virginica</i>	Virginia blue flag		x	x			x	x		x	x			x
<i>Kosteletskya virginica</i>	seashore mallow	x		x			x			x		x		x

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
<i>Lespedeza capitata</i>	round-head bush clover	X		X		X	X	X			X		X	
<i>Liatris graminifolia</i>	grass-leaf blazing star	X	X	X		X	X	X		X	X	X	X	
<i>Liatris spicata</i>	spiked blazing star	X	X	X		X				X	X		X	
<i>Liatris squarrosa</i>	plains blazing star	X	X	X		X				X	X		X	
<i>Lilium canadense</i>	Canada lily		X			X	X			X	X		X	X
<i>Lilium philadelphicum</i>	wood lily		X			X				X	X		X	
<i>Lilium superbum</i>	Turk's cap lily		X			X	X	X		X	X		X	X
<i>Lobelia cardinalis</i>	cardinal flower	X	X	X		X	X	X		X	X			X
<i>Lobelia siphilitica</i>	great blue lobelia	X	X	X		X	X	X		X	X			X
<i>Lupinus perennis</i>	lupine, sundial lupine	X				X	X	X		X	X		X	
<i>Maianthemum canadense</i> (<i>Smilacina r.</i>)	false Solomon's seal		X	X		X	X	X		X	X			X
<i>Mertensia virginica</i>	Virginia bluebells	X	X			X	X			X	X		X	X
<i>Mimulus ringens</i>	monkeyflower		X	X		X	X	X			X			X
<i>Monarda didyma</i>	bee balm	X	X	X		X				X	X			X
<i>Monarda fistulosa</i>	wild bergamot	X	X	X		X	X	X		X	X		X	X
<i>Nymphaea odorata</i>	American water lily	X	X	X		X	X	X			X			X
<i>Oenothera fruticosa</i>	sundrops	X	X	X		X	X	X			X		X	X
<i>Opuntia humifusa</i> (<i>O. compressa</i>)	Eastern prickly-pear	X	X	X		X	X	X			X		X	
<i>Peltandra virginica</i>	arrow arum	X	X	X		X	X			X	X			X
<i>Penstemon laevigatus</i>	smooth beardtongue	X				X	X	X		X	X			X
<i>Phlox carolina</i>	thick-leaved phlox	X	X	X						X	X		X	X
<i>Phlox divaricata</i>	woodland phlox, wild blue phlox		X	X		X	X			X			X	X
<i>Phlox paniculata</i>	summer phlox, garden phlox		X	X		X	X	X		X	X			X
<i>Phlox stolonifera</i>	creeping phlox		X	X		X				X	X			X
<i>Phlox subulata</i>	moss phlox		X	X		X	X				X		X	X
<i>Physostegia virginiana</i>	obedient plant		X	X		X	X			X	X			X
<i>Podophyllum peltatum+</i>	mayapple	X	X	X		X	X	X		X	X			X
<i>Polemonium reptans</i>	Jacob's ladder		X			X	X	X		X	X			X
<i>Polygonatum biflorum</i>	Solomon's seal		X			X	X	X		X	X		X	X
<i>Pontederia cordata</i>	pickerel weed	X	X	X		X	X				X			X
<i>Porteranthus trifoliatus</i> (<i>Gillenia t.</i>)	bowman's root		X			X	X			X	X			X
<i>Pycnanthemum incanum</i>	hoary mountain mint	X		X		X	X	X		X				X
<i>Pycnanthemum tenuifolium</i>	narrow-leaved mountain mint	X	X	X		X	X	X		X	X		X	X
<i>Rhexia virginica</i>	Virginia meadow-beauty	X		X		X	X	X			X			X
<i>Rudbeckia fulgida</i>	early coneflower		X	X		X				X	X		X	X
<i>Rudbeckia hirta</i>	black eyed Susan		X	X		X	X	X		X	X		X	X
<i>Rudbeckia laciniata</i>	cut-leaved coneflower	X	X	X		X	X	X		X	X			X
<i>Rudbeckia triloba</i>	three-lobed coneflower	X	X	X		X	X	X		X	X			X
<i>Sagittaria latifolia</i>	broadleaf arrowhead	X	X	X		X	X	X			X			X
<i>Salvia lyrata+</i>	lyre-leaf sage			X		X	X	X		X	X		X	
<i>Sanguinaria canadensis</i>	bloodroot		X			X	X	X		X				X
<i>Saururus cernuus</i>	lizard's tail		X	X		X	X	X		X	X			X
<i>Saxifraga virginiensis</i>	early saxifrage		X			X	X	X		X	X	X		X
<i>Sedum ternatum</i>	wild stonecrop		X			X	X	X		X	X			X

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		W	H	C	D	M	P	C	S	P	F	L	M	H
<i>Senecio aureus</i> +	golden ragwort	x		x		x	x	x	x	x		x	x	
<i>Senna marilandica</i> (<i>Cassia m.</i>)	Maryland wild senna		x	x		x	x	x		x		x	x	
<i>Silene virginica</i>	fire pink		x			x	x		x	x		x	x	
<i>Silphium perfoliatum</i>	cup plant	x		x		x	x		x	x	x		x	
<i>Solidago caesia</i>	bluestem goldenrod	x	x	x		x	x	x	x	x	x		x	
<i>Solidago odora</i>	sweet goldenrod	x	x	x		x	x	x		x	x	x		
<i>Solidago pinetorum</i> +	pineywoods goldenrod	x		x		x	x		x	x	x	x		
<i>Solidago puberula</i>	downy goldenrod	x	x	x		x	x	x		x		x	x	
<i>Solidago rugosa</i> +	rough-stemmed goldenrod	x		x		x	x	x		x	x	x		
<i>Solidago sempervirens</i>	seaside goldenrod	x	x	x			x		x	x	x	x		
<i>Thalictrum dioicum</i>	early meadowrue	x				x	x		x			x		
<i>Tiarella cordifolia</i> var. <i>collina</i>	clumping foamflower	x				x	x		x			x		
<i>Tiarella cordifolia</i> var. <i>cordifolia</i>	spreading foamflower	x				x	x		x			x		
<i>Tradescantia virginiana</i>	Virginia spiderwort	x	x			x	x	x	x	x	x	x		
<i>Trillium erectum</i>	wakerobin	x				x			x			x		
<i>Trillium grandiflorum</i>	white trillium	x				x	x		x			x		
<i>Uvularia grandiflora</i>	bellwort	x				x			x			x		
<i>Verbena hastata</i>	blue vervain	x		x		x	x			x	x	x	x	x
<i>Vernonia noveboracensis</i>	New York ironweed	x	x	x		x	x	x		x	x		x	
<i>Veronicastrum virginicum</i>	Culver's root		x	x		x			x	x		x	x	x
<i>Viola cucullata</i>	marsh blue violet	x	x	x		x	x	x		x	x		x	
<i>Viola pedata</i>	bird's foot violet	x	x			x	x	x		x	x	x		
<i>Viola pubescens</i> (<i>V. pennsylvanica</i>)	yellow violet	x	x	x		x	x		x	x			x	
<i>Yucca filamentosa</i>	common yucca	x	x			x	x	x			x		x	
<i>Zephyranthes atamasco</i>	Atamasco lily		x	x				x		x	x		x	x

+ May be aggressive in garden setting.

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Source: VA DCR, undated.

^aRecommended Uses

W = Wildlife

H = Horticulture and Landscaping

C = Conservation and Restoration

D = Domestic Livestock Forage

^bNative Regions

M = Mountains

P = Piedmont

C = Coastal Plain

^cMinimum Light Requirements

S = Full Shade

P = Partial Sun

F = Full Sun

^dMinimum Moisture Requirements

L = Low Moisture

M = Moderate Moisture

H = High Moisture

Table M.3: Native Shrubs

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
Shrubs														
<i>Alnus serrulata</i>	common alder	X	X	X		X	X	X	X	X	X			X
<i>Aronia arbutifolia</i>	red chokeberry		X	X		X	X	X	X	X			X	X
<i>Aronia melanocarpa</i>	black chokeberry		X	X		X	X	X		X	X	X	X	X
<i>Baccharis halimifolia</i>	high tide bush		X	X			X			X		X	X	X
<i>Callicarpa americana</i>	American beautyberry	X	X				X		X	X				X
<i>Castanea pumila</i>	Allegheny chinkapin	X	X	X		X	X	X	X	X	X			X
<i>Ceanothus americanus</i>	New Jersey tea	X	X	X		X	X	X		X	X			X
<i>Cephalanthus occidentalis</i>	buttonbush		X	X		X	X	X		X	X			X
<i>Clethra alnifolia</i>	sweet pepper-bush	X	X	X			X		X	X			X	X
<i>Cornus amomum</i>	silky dogwood	X		X		X	X	X	X	X			X	X
<i>Crataegus crus-galli</i>	cockspur hawthorn	X	X	X		X	X	X		X	X		X	X
<i>Gaultheria procumbens</i>	wintergreen	X	X			X	X	X		X	X		X	X
<i>Gaylussacia baccata</i>	black huckleberry	X	X	X		X	X	X		X	X		X	X
<i>Gaylussacia frondosa</i>	dangleberry	X	X	X		X	X		X	X	X			X
<i>Hamamelis virginiana</i>	witch hazel		X	X		X	X	X		X	X		X	X
<i>Hydrangea arborescens</i>	wild hydrangea		X			X	X	X		X	X			X
<i>Ilex decidua</i>	deciduous holly, possumhaw	X	X	X			X	X	X	X				X
<i>Ilex glabra</i>	inkberry	X	X	X				X	X	X			X	X
<i>Ilex verticillata</i>	winterberry	X	X	X		X	X	X		X	X		X	X
<i>Ilex vomitoria</i>	Yaupon holly	X	X	X			X	X	X	X				X
<i>Itea virginica</i>	Virginia willow	X	X	X			X	X	X					X
<i>Iva frutescens</i>	marsh elder		X	X			X			X			X	X
<i>Kalmia latifolia</i>	mountain laurel	X	X	X		X	X	X		X	X			X
<i>Leucothoe axillaris</i>	coastal dog-hobble	X					X	X						X
<i>Leucothoe racemosa</i>	fetterbush, sweetbells		X	X		X	X	X		X	X			X
<i>Lindera benzoin</i>	spicebush	X	X	X		X	X	X	X					X
<i>Lyonia lucida</i>	shining fetterbush		X	X			X	X	X					X
<i>Myrica cerifera</i>	Southern wax myrtle	X	X	X			X	X	X				X	X
<i>Myrica heterophylla</i>	Southern bayberry	X	X	X			X	X	X				X	X
<i>Myrica pensylvanica</i>	Northern bayberry	X	X	X			X			X			X	X
<i>Pieris floribunda</i>	evergreen mountain fetterbush		X	X			X			X				X
<i>Rhododendron atlanticum</i>	dwarf azalea	X	X					X		X				X
<i>Rhododendron calendulaceum</i>	flame azalea		X				X			X				X
<i>Rhododendron catawbiense</i>	Catawba rhododendron	X	X			X	X			X	X			X
<i>Rhododendron cumberlandense</i>	Cumberland flame azalea		X				X			X				X
<i>Rhododendron maximum</i>	great rhododendron, rose bay	X	X	X		X	X		X	X				X
<i>Rhododendron periclymenoides</i>	pinxter flower		X	X		X	X	X	X	X			X	X
<i>Rhododendron prinophyllum</i>	rose azalea	X	X			X			X	X	X		X	X
<i>Rhododendron viscosum (R. serrulata)</i>	swamp azalea		X	X		X	X	X		X	X		X	X
<i>Rhus aromatica</i>	fragrant sumac		X			X	X			X	X		X	

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
<i>Rhus copallina</i>	winged sumac, flameleaf sumac	X	X	X		X	X	X	X	X		X		
<i>Rosa carolina</i>	pasture rose	X		X		X	X	X		X	X	X	X	
<i>Rubus allegheniensis</i>	Alleghany blackberry	X	X	X		X	X			X		X		
<i>Rubus odoratus</i>	purple flowering raspberry			X		X			X			X		
<i>Salix humilis</i>	prairie willow		X	X		X	X	X		X		X		
<i>Salix sericea</i>	silky willow		X	X		X	X	X		X	X	X		
<i>Sambucus canadensis</i>	common elderberry	X	X	X		X	X	X		X		X	X	
<i>Spiraea alba</i>	narrow-leaved meadowsweet	X	X	X		X				X		X		
<i>Spiraea latifolia</i>	broad-leaved meadowsweet	X	X	X		X				X		X		
<i>Stewartia malacodendron*</i>	silky camelia		X				X		X	X			X	
<i>Vaccinium angustifolium</i>	Northern lowbush blueberry	X	X	X		X				X		X		
<i>Vaccinium corymbosum</i> (<i>V. virgata, formosa</i>)	highbush blueberry	X	X	X		X	X	X	X	X	X	X	X	X
<i>Viburnum dentatum</i>	Southern arrow-wood viburnum	X	X	X		X	X	X		X	X	X	X	
<i>Viburnum nudum</i>	possum-haw viburnum		X	X		X	X	X		X	X			X
<i>Viburnum prunifolium</i>	black-haw viburnum	X	X	X		X	X	X		X	X			X

+ May be aggressive in garden setting.

* Due to the rarity and sensitivity of habitat in Virginia, these species are recommended for horticultural use only. Planting these species in natural areas could be detrimental to the survival of native populations.

Source: VA DCR, undated.

^aRecommended Uses

W = Wildlife

H = Horticulture and Landscaping

C = Conservation and Restoration

D = Domestic Livestock Forage

^bNative Regions

M = Mountains

P = Piedmont

C = Coastal Plain

^cMinimum Light Requirements

S = Full Shade

P = Partial Sun

F = Full Sun

^dMinimum Moisture Requirements

L = Low Moisture

M = Moderate Moisture

H = High Moisture

Table M.4: Native Trees

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
Small trees														
<i>Amelanchier arborea</i>	downy serviceberry	X	X	X		X	X	X		X	X		X	
<i>Amelanchier canadensis</i>	Canada serviceberry	X	X	X		X	X	X			X		X	X
<i>Amelanchier laevis</i>	smooth serviceberry	X	X	X		X				X	X		X	X
<i>Asimina triloba</i>	paw paw	X	X	X		X	X	X		X	X		X	
<i>Cercis canadensis</i>	redbud (Eastern)			X	X	X	X	X		X	X		X	
<i>Chionanthus virginicus</i>	fringetree			X		X	X	X		X	X		X	
<i>Cornus alternifolia</i>	alternate-leaf dogwood	X	X	X		X	X			X	X		X	X
<i>Cornus amomum</i>	silky dogwood	X		X		X	X	X		X	X		X	X
<i>Cornus florida</i>	flowering dogwood	X	X	X		X	X	X		X	X		X	X
<i>Crateagus crus-galli</i>	cockspur hawthorne	X	X	X		X	X	X		X	X		X	X
<i>Crateagus flava</i>	October haw	X	X			X	X	X		X	X		X	
<i>Euonymous atropurpureus</i>	wahoo		X	X		X	X	X		X	X		X	
<i>Halesia tetrapeta (H. carolina)</i>	common silverbell		X			X				X	X		X	
<i>Ilex opaca</i>	American holly	X	X	X		X	X	X		X			X	
<i>Magnolia virginiana</i>	sweetbay magnolia		X	X			X	X		X	X		X	X
<i>Morus rubra</i>	red mulberry	X	X	X		X	X	X		X	X		X	
<i>Ostrya virginiana</i>	Eastern hop-hornbeam	X				X	X	X		X	X		X	
<i>Persea borbonia</i>	redbay, sweet bay		X	X				X		X	X		X	X
<i>Prunus americana</i>	American wild plum		X	X		X	X	X		X			X	
<i>Prunus virginiana</i>	choke cherry	X	X	X		X				X			X	
<i>Rhus glabra</i>	smooth sumac	X	X	X		X	X	X			X		X	X
<i>Rhus hirta (R. typhina)</i>	staghorn sumac	X	X	X		X	X	X			X		X	
<i>Salix nigra</i>	black willow			X		X	X	X		X	X		X	X
Medium to Large Trees														
<i>Acer rubrum</i>	red maple		X	X		X	X	X			X		X	X
<i>Acer saccharum</i>	sugar maple		X	X		X	X			X	X		X	
<i>Aesculus flava (A. octandra)</i>	yellow buckeye		X			X	X				X		X	
<i>Betula alleghaniensis</i>	yellow birch	X	X	X		X				X	X		X	
<i>Betula lenta</i>	sweet birch, black birch	X	X	X		X	X			X	X		X	
<i>Betula nigra</i>	river birch	X	X	X		X	X	X			X		X	X
<i>Carya alba (C. tomentosa)</i>	mockernut hickory			X		X	X	X		X	X		X	X
<i>Carya glabra</i>	pignut hickory	X	X	X		X	X	X		X	X		X	
<i>Carya ovata</i>	shagbark hickory			X		X	X	X		X	X		X	
<i>Chamaecyparis thyoides*</i>	Atlantic white cedar	X	X				X			X	X		X	X
<i>Diospyros virginiana</i>	persimmon	X	X	X		X	X	X		X	X	X	X	
<i>Fagus grandifolia</i>	American beech	X	X			X	X	X		X	X	X		
<i>Fraxinus americana</i>	white ash	X	X			X	X	X			X	X		
<i>Fraxinus pensylvanica</i>	green ash	X	X	X		X	X	X			X	X		
<i>Juglans nigra</i>	black walnut	X		X		X	X	X			X	X		X
<i>Juniperus virginiana</i>	red cedar (Eastern)	X	X			X	X	X		X	X		X	X
<i>Liquidambar styraciflua</i>	sweetgum		X	X		X	X	X		X	X	X	X	
<i>Liriodendron tulipifera</i>	tulip-tree, tulip poplar	X	X	X		X	X	X			X		X	
<i>Magnolia acuminata</i>	cucumber magnolia		X			X					X		X	
<i>Nyssa aquatica</i>	water tupelo	X	X	X				X			X	X		
<i>Nyssa sylvatica</i>	black gum	X	X	X		X	X	X			X	X		X
<i>Oxydendrum arboreum</i>	sourwood		X			X	X	X			X			X

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Moisture ^d		
		W	H	C	D	M	P	C	S	P	F	L	M	H
<i>Pinus echinata</i>	shortleaf pine		x			x	x	x		x	x	x		
<i>Pinus serotina</i>	pond pine	x	x	x				x			x		x	x
<i>Pinus strobus</i>	white pine		x	x		x	x	x			x	x	x	
<i>Pinus taeda</i>	loblolly pine	x	x	x			x	x			x	x	x	x
<i>Pinus virginiana</i>	Virginia pine			x		x	x	x			x	x	x	
<i>Platanus occidentalis</i>	sycamore			x		x	x	x		x	x		x	x
<i>Prunus pensylvanica</i>	pin cherry, fire cherry	x		x		x				x	x	x		
<i>Prunus serotina</i>	wild black cherry	x		x		x	x	x		x	x	x		
<i>Quercus alba</i>	white oak	x	x	x		x	x	x		x	x	x		
<i>Quercus bicolor</i>	swamp white oak	x		x		x	x	x	x	x	x			x
<i>Quercus coccinea</i>	scarlet oak	x	x			x	x	x		x	x	x		
<i>Quercus falcata</i>	Southern red oak	x	x	x		x	x	x	x	x	x	x	x	x
<i>Quercus ilicifolia</i>	bear oak	x		x		x	x				x	x	.	
<i>Quercus laurifolia</i>	swamp laurel oak	x		x			x			x	x	x	x	x
<i>Quercus michauxii</i>	swamp chestnut oak	x	x				x	x		x	x			x
<i>Quercus montana</i> (<i>Q. prinus</i>)	chestnut oak	x		x		x	x	x	x	x	x	x		
<i>Quercus nigra</i>	water oak	x		x			x		x	x	x	x	x	x
<i>Quercus palustris</i>	pin oak	x	x	x		x	x	x	x	x	x	x	x	x
<i>Quercus phellos</i>	willow oak	x	x	x			x	x		x	x	x	x	x
<i>Quercus rubra</i>	Northern red oak	x	x	x		x	x	x		x	x	x	x	x
<i>Quercus stellata</i>	post oak	x	x	x		x	x	x			x	x		
<i>Quercus velutina</i>	black oak	x		x		x	x	x	x	x	x	x		
<i>Robinia pseudoacacia</i>	black locust			x		x	x	x		x	x	x		x
<i>Sassafras albidum</i>	sassafras			x		x	x	x		x	x	x	x	x
<i>Taxodium distichum</i>	bald cypress		x	x			x				x			x
<i>Thuja occidentalis</i>	white cedar	x	x	x		x				x		x	x	x
<i>Tilia americana</i>	American basswood			x		x	x	x	x		x		x	
<i>Tsuga canadensis</i>	Eastern hemlock	x	x	x		x	x			x	x		x	
<i>Tsuga caroliniana</i>	Carolina hemlock	x	x	x		x				x	x	x	x	x

+ May be aggressive in garden setting.

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^bNative Regions

M = Mountains

P = Piedmont

C = Coastal Plain

^cMinimum Light Requirements

S = Full Shade

P = Partial Sun

F = Full Sun

^dMinimum Moisture Requirements

L = Low Moisture

M = Moderate Moisture

H = High Moisture

Table M.5: Native Riparian Plants

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Zone ^d			
		W	H	C	D	M	P	C	S	P	F	1	2	3	4
Herbaceous plants															
<i>Acorus americanus</i> (<i>A. calamus</i>)	sweet flag		x	x		x	x	x	x	x		x			
<i>Amsonia tabernaemontana</i>	blue star		x				x	x	x	x			x	x	
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	x				x	x	x	x			x		x	
<i>Asarum canadense</i> +	wild ginger		x	x		x	x	x	x			x		x	
<i>Asclepias incarnata</i>	swamp milkweed	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Aster novae-angliae</i>	New England aster	x	x			x			x	x	x	x	x		x
<i>Aster novi-belgii</i>	New York aster	x	x	x				x	x	x	x	x	x	x	x
<i>Aster umbellatus</i>	flat-top white aster		x	x		x	x		x	x	x	x	x	x	
<i>Bidens cernua</i> +	nodding beggar-ticks	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Boltonia asteroides</i> *	aster-like boltonia	x					x		x	x	x	x	x	x	x
<i>Caltha palustris</i>	marsh marigold	x	x			x	x	x	x	x	x	x	x	x	
<i>Chamaecrista fasciculata</i> +	partridge pea		x			x	x	x	x	x	x	x	x	x	
<i>Chelone glabra</i>	white turtlehead	x	x			x	x	x	x	x	x	x	x	x	x
<i>Chrysogonum virginianum</i>	green and gold	x	x			x	x	x	x	x	x	x	x	x	
<i>Coreopsis tripteris</i>	tall coreopsis	x	x			x	x	x	x	x	x	x	x	x	x
<i>Delphinium tricorne</i>	dwarf larkspur	x				x	x	x	x	x	x	x	x	x	
<i>Dicentra cucullaria</i>	Dutchman's breeches	x				x	x	x	x	x	x	x	x	x	
<i>Equisetum hyemale</i>	horsetail, scouring rush		x			x	x	x	x	x	x	x	x	x	x
<i>Eupatorium coelestinum</i>	mistflower	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Eupatorium fistulosum</i>	Joe Pye weed	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Eupatorium perfoliatum</i>	common boneset		x			x	x	x	x	x	x	x	x	x	x
<i>Helenium autumnale</i>	sneezeweed	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Helianthus decapetalus</i>	ten-petaled sunflower	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Helianopsis helianthoides</i>	oxeye sunflower	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Hibiscus moscheutos</i>	Eastern rosemallow	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Iris virginica</i>	Virginia blue flag		x	x			x	x	x	x	x	x	x	x	x
<i>Kosteletskya virginica</i>	seashore mallow	x	x				x		x	x	x	x	x	x	x
<i>Lilium superbum</i>	Turk's cap lily		x			x	x	x	x	x	x	x	x	x	x
<i>Lobelia cardinalis</i>	cardinal flower	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Lobelia siphilitica</i>	great blue lobelia	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Maianthemum canadense</i>	false Solomon's seal	x	x			x	x	x	x	x	x	x	x	x	x
<i>Mertensia virginica</i>	Virginia bluebells	x	x			x	x	x	x	x	x	x	x	x	x
<i>Mimulus ringens</i>	monkeyflower		x	x		x	x	x	x	x	x	x	x	x	x
<i>Monarda didyma</i>	bee balm	x	x	x		x			x	x	x	x	x	x	x
<i>Nymphaea odorata</i>	American water lily	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Oenothera fruticosa</i>	sundrops	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Peltandra virginica</i>	arrow arum	x	x	x			x	x	x	x	x	x	x	x	x
<i>Phlox divaricata</i>	woodland phlox		x	x		x	x	x	x	x	x	x	x	x	x
<i>Phlox paniculata</i>	summer phlox		x	x		x	x	x	x	x	x	x	x	x	x
<i>Podophyllum peltatum</i> +	mayapple	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Polemonium reptans</i>	Jacob's ladder		x			x	x	x	x	x	x	x	x	x	x
<i>Pontederia cordata</i>	pickerel weed	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Rhexia virginica</i>	Virginia meadow-beauty	x	x			x	x	x	x	x	x	x	x	x	x
<i>Rudbeckia laciniata</i>	cut-leaved coneflower	x	x	x		x	x	x	x	x	x	x	x	x	x
<i>Sagittaria latifolia</i>	broadleaf arrowhead	x	x	x		x	x	x	x	x	x	x	x	x	x

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Zone ^d			
		W	H	C	D	M	P	C	S	P	F	1	2	3	4
<i>Saururus cernuus</i>	lizard's tail		x	x		x	x	x	x	x	x	x	x	x	
<i>Senecio aureus+</i>	golden ragwort	x		x		x	x	x	x	x		x	x	x	x
<i>Solidago rugosa+</i>	rough-stemmed goldenrod	x		x		x	x	x		x	x		x	x	x
<i>Verbena hastata</i>	blue vervain	x		x		x	x			x	x		x	x	
<i>Vernonia noveboracensis</i>	New York ironweed	x	x	x		x	x	x		x	x		x	x	x
<i>Viola cucullata</i>	marsh blue violet	x	x	x		x	x	x		x	x		x		
<i>Viola pubescens</i>	yellow violet	x	x	x		x	x			x	x			x	
<i>Zephyranthes atamasco</i>	Atamasco lily		x	x			x		x	x	x		x	x	x
Ferns and fern allies															
<i>Athyrium asplenoides</i>	Southern ladyfern	x	x			x	x	x	x				x	x	
<i>Botrychium virginianum</i>	Rattlesnake fern	x				x	x	x	x	x			x		
<i>Onoclea sensibilis+</i>	sensitive fern	x	x			x	x	x		x	x		x	x	
<i>Osmunda cinnamomea</i>	cinnamon fern	x	x			x	x	x	x	x			x	x	
<i>Osmunda regalis</i>	royal fern	x	x			x	x	x		x			x	x	
<i>Polystichum acrostichoides</i>	Christmas fern	x	x			x	x	x	x					x	
<i>Thelypteris palustris</i>	marsh fern	x				x	x	x		x	x		x	x	x
<i>Woodwardia virginica+</i>	Virginia chain fern	x	x			x			x	x	x		x	x	
Grasses, sedges, reeds															
<i>Agrostis perennans</i>	autumn bentgrass		x			x	x	x	x	x	x	x	x	x	x
<i>Andropogon gerardii</i>	big bluestem	x	x	x	x	x	x		x	x		x	x		
<i>Andropogon glomeratus</i>	bushy bluestem	x	x			x	x	x		x	x		x		
<i>Arundinaria gigantea</i>	wild cane, river cane	x	x			x			x	x	x		x	x	x
<i>Carex crinita var. crinita</i>	long hair sedge	x	x	x		x	x	x		x	x		x	x	x
<i>Carex lurida</i>	sallow sedge	x	x			x	x	x		x	x		x	x	x
<i>Carex stricta</i>	tussock sedge	x	x			x	x	x		x	x		x	x	x
<i>Chasmanthium latifolium</i>	river oats, spanglegrass	x	x			x	x	x		x	x		x	x	x
<i>Dichanthelium clandestinum</i>	deer-tongue	x	x	x		x	x	x		x	x		x	x	x
<i>Dichanthelium commutatum</i>	variable panicgrass	x	x	x	x	x	x	x		x	x			x	
<i>Dulichium arundinaceum</i>	dwarf bamboo	x	x	x		x	x	x		x	x		x	x	x
<i>Elymus hystrix</i> (<i>Hystrix patula</i>)	bottlebrush grass	x	x			x	x	x		x	x		x	x	
<i>Elymus virginicus</i>	Virginia wild rye	x	x			x	x	x		x	x		x	x	x
<i>Juncus canadensis</i>	Canada rush	x	x			x	x			x	x		x	x	x
<i>Juncus effusus</i>	soft rush	x	x			x	x	x		x	x		x	x	x
<i>Leersia oryzoides</i>	rice cutgrass	x	x			x	x	x		x	x		x	x	x
<i>Panicum virgatum</i>	switch grass	x	x	x		x	x	x		x	x		x	x	x
<i>Saccharum giganteum</i>	giant plumegrass	x	x	x		x	x			x	x		x	x	x
<i>Scirpus cyperinus</i>	woolgrass bulrush	x	x	x		x	x	x		x	x		x	x	x
<i>Sparganium americanum</i>	American bur-reed	x	x			x	x	x		x	x		x		x
<i>Tripsacum dactyloides</i>	gama grass	x	x	x	x	x	x	x		x	x		x	x	x
<i>Typha latifolia</i>	broad-leaved cattail	x	x			x	x	x			x		x	x	
<i>Zizania aquatica</i>	wild rice	x	x	x			x			x	x		x	x	
Vines															
<i>Bignonia capreolata</i>	crossvine	x	x			x	x	x		x	x		x	x	x
<i>Celastrus scandens</i>	climbing bittersweet	x	x			x	x	x		x	x		x	x	
<i>Clematis virginiana</i>	virgin's bower	x				x	x	x		x	x		x	x	x
<i>Parthenocissus quinquefolia</i>	Virginia creeper	x	x	x		x	x	x		x	x		x	x	x
Shrubs															
<i>Alnus serrulata</i>	common alder	x	x	x		x	x	x		x	x	x	x	x	x
<i>Aronia arbutifolia</i>	red chokeberry	x	x			x	x	x		x	x		x	x	x
<i>Aronia melanocarpa</i>	black chokeberry	x	x			x	x	x		x	x		x	x	x

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Zone ^d			
		W	H	C	D	M	P	C	S	P	F	1	2	3	4
<i>Callicarpa americana</i>	American beautyberry	X	X					X	X					X	X
<i>Cephalanthus occidentalis</i>	buttonbush		X	X		X	X	X	X	X		X	X		
<i>Clethra alnifolia</i>	sweet pepper-bush	X	X	X				X	X	X			X		
<i>Cornus amomum</i>	silky dogwood	X		X		X	X	X	X	X			X	X	
<i>Hydrangea arborescens</i>	wild hydrangea		X			X	X	X	X	X				X	
<i>Ilex decidua</i>	possumhaw	X	X	X		X	X		X	X			X	X	X
<i>Ilex verticillata</i>	winterberry	X	X	X		X	X	X	X	X			X	X	X
<i>Itea virginica</i>	Virginia willow	X	X	X				X	X	X			X	X	
<i>Leucothoe racemosa</i>	fetterbush, sweetbells		X	X		X	X	X	X	X			X	X	
<i>Lindera benzoin</i>	spicebush	X	X	X		X	X	X	X				X	X	
<i>Myrica cerifera</i>	Southern wax myrtle	X	X	X				X	X				X	X	X
<i>Rhododendron viscosum</i>	swamp azalea		X	X		X	X	X	X	X			X	X	
<i>Rubus allegheniensis</i>	Alleghany blackberry	X	X	X		X	X			X			X	X	X
<i>Salix sericea</i>	silky willow		X	X		X	X	X	X	X			X	X	
<i>Sambucus canadensis</i>	common elderberry	X	X	X		X	X	X		X			X	X	X
<i>Spiraea alba</i>	narrow-lvd. meadowsweet	X	X	X		X				X			X	X	
<i>Spiraea latifolia</i>	broad-lvd. meadowsweet	X	X	X		X				X			X	X	X
<i>Vaccinium corymbosum</i>	highbush blueberry	X	X	X		X	X	X	X	X	X		X	X	X
<i>Viburnum dentatum</i>	So. arrow-wood viburnum	X	X	X		X	X	X		X			X		
<i>Viburnum prunifolium</i>	black-haw viburnum	X	X	X		X	X	X		X			X		
Small trees															
<i>Amelanchier arborea</i>	downy serviceberry	X	X	X		X	X	X	X	X				X	
<i>Amelanchier canadensis</i>	Canada serviceberry	X	X	X		X	X	X		X			X	X	X
<i>Amelanchier laevis</i>	smooth serviceberry	X	X	X		X				X			X		
<i>Asimina triloba</i>	paw paw	X	X	X		X	X	X	X	X			X	X	
<i>Cornus alternifolia</i>	alternate-leaf dogwood	X	X	X		X	X			X				X	
<i>Crateagus flava</i>	October haw	X	X			X	X	X	X	X			X		
<i>Morus rubra</i>	red mulberry	X	X	X		X	X	X	X	X			X	X	
<i>Ostrya virginiana</i>	Eastern hop-hornbeam	X				X	X	X	X	X				X	
<i>Persea borbonia</i>	redbay, sweet bay		X	X				X	X	X				X	
<i>Rhus glabra</i>	smooth sumac	X	X	X		X	X	X			X			X	X
<i>Salix nigra</i>	black willow		X			X	X	X	X	X			X	X	X
Medium to Large Trees															
<i>Acer rubrum</i>	red maple		X	X		X	X	X		X			X	X	X
<i>Betula lenta</i>	sweet birch, black birch	X	X	X		X	X			X	X			X	X
<i>Betula nigra</i>	river birch	X	X	X		X	X	X			X			X	X
<i>Diospyros virginiana</i>	persimmon	X	X	X		X	X	X	X	X	X		X	X	X
<i>Fraxinus americana</i>	white ash	X	X			X	X	X		X	X		X	X	X
<i>Fraxinus pensylvanica</i>	green ash		X	X	X		X	X	X		X		X	X	
<i>Juglans nigra</i>	black walnut	X		X		X	X	X		X	X		X	X	X
<i>Liquidambar styraciflua</i>	sweetgum		X	X		X	X	X	X	X	X		X	X	X
<i>Liriodendron tulipifera</i>	tulip-tree, tulip poplar	X	X	X		X	X	X			X			X	X
<i>Nyssa aquatica</i>	water tupelo	X	X	X				X		X	X		X		
<i>Nyssa sylvatica</i>	black gum	X	X	X		X	X	X		X	X		X	X	X
<i>Oxydendrum arboreum</i>	sourwood		X			X	X	X		X			X		
<i>Pinus taeda</i>	loblolly pine	X	X	X			X	X			X		X	X	X
<i>Platanus occidentalis</i>	sycamore		X			X	X	X		X	X		X	X	X
<i>Quercus bicolor</i>	swamp white oak	X		X		X	X	X	X	X	X		X	X	
<i>Quercus laurifolia</i>	swamp laurel oak	X		X				X		X	X		X	X	
<i>Quercus michauxii</i>	swamp chestnut oak	X	X					X	X		X	X		X	X

Scientific Name	Common Name	Uses ^a				Region ^b			Light ^c			Zone ^d			
		W	H	C	D	M	P	C	S	P	F	1	2	3	4
<i>Quercus nigra</i>	water oak	x		x				x	x	x		x	x	x	x
<i>Quercus palustris</i>	pin oak	x	x	x		x	x	x	x	x			x	x	
<i>Quercus phellos</i>	willow oak	x	x	x		x	x		x	x			x	x	x
<i>Taxodium distichum</i>	bald cypress		x	x			x			x		x	x		

+May be aggressive in garden setting.

*Due to the rarity and sensitivity of habitat in Virginia, these species are recommended for horticultural use only. Planting these species in natural areas could be detrimental to the survival of native populations.

Source: VA DCR, undated.

^aRecommended Uses

W = Wildlife

H = Horticulture and Landscaping

C = Conservation and Restoration

D = Domestic Livestock Forage

^bNative Regions

M = Mountains

P = Piedmont

C = Coastal Plain

^cMinimum Light Requirements

S = Full Shade

P = Partial Sun

F = Full Sun

^dMinimum Moisture Requirements

L = Low Moisture

M = Moderate Moisture

H = High Moisture